

# **Meeting on Issues Relating to the California Phase 3 Reformulated Gasoline Regulations**

**July 25, 2000**

**California Environmental Protection Agency**

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**Air Resources Board**

# Agenda

- ✦ Introduction
- ✦ Overview of issues and progress
- ✦ Presentation from others
- ✦ Schedule next meeting

# Issues

- ✦ Denatured ethanol specifications
- ✦ Permeation
- ✦ CaRBOB regulation
- ✦ Oxygenate waiver status
- ✦ Predictive Model and EMFAC2000
- ✦ Small refiners
- ✦ Commingling
- ✦ Driveability index
- ✦ Sulfur in gasoline

# Denatured Ethanol

- ✦ Specifications for denatured ethanol for use in motor vehicles fuels
  - Proposal to the Board by October 2000
- ✦ RFA proposed specifications
  - Sulfur 15 ppm
  - Benzene 0.1 vol%
  - Olefins 0.5 vol%
  - Aromatic hydrocarbons 1.7 vol%

# Permeation Emissions

- ✦ Contract in place with Harold Haskeew & Associates
- ✦ Update the Board in October 2000 on the potential increase in hydrocarbon emissions from material permeability with the use of ethanol in gasoline
- ✦ Report to the Board on the results of permeability testing by December 2001

# CARBOB

- ✦ Amendments to CaRFG to assure the practical and effective implementation of the on CARBOB and imported gasoline
- ✦ CARBOB model for certification of ethanol blends prior to the addition of ethanol
- ✦ Proposal to the Board by October 2000

# Oxygen Waiver

- ✦ Continue to pursue the U. S. EPA oxygen waiver
  - Continue to support request to U. S. EPA to waive the application of the federal RFG year-round 2.0 wt.% minimum oxygen requirement for federal RFG areas

# Predictive Model Update

- ✦ EMFAC 2000 approved (pending resolution of a couple of outstanding issues) by the ARB in May 2000
  - Resolution of the outstanding issues will not be in time to meet the deadline for the adoption of the CaRFG3 Regulations



## Small Refiner

- ✦ Amendments to the ARB's diesel fuel regulations to incorporate a mechanism for small refiners to fully mitigate any increased emissions associated with CaRFG3 small refiner provisions
- ✦ Proposal to the Board by October 2000

# Commingling Effects

- ✦ Investigate effects from commingling EtOH blends and non-oxygenated gasoline
- ✦ Recommendations to Board by December 2001

# Driveability Index

- ✦ Transmitted to the U. S. EPA the board's recommendation to adopt a nationwide DI standard to assure the adequate emissions performance of existing and advanced technology motor vehicles
- ✦ To evaluate driveability characteristics of in-use CaRFG3 to determine if adequate
- ✦ Report to the Board by 2004

# Sulfur Content

- ✦ Evaluate CaRFG3 sulfur levels
- ✦ Complete evaluation with CEC on impacts of near zero sulfur levels in gasoline (including impacts on supply and cost of production)
- ✦ To be completed in 2004

## Other Issues

- ✦ Work with local air quality management districts and local communities to address potential impacts from an increase use of cargo tank trucks to transport ethanol
- ✦ Provide the Board with update every 6 months on the of the implementation of the directives

# Other Meeting Items

- ✦ Presentation from others
- ✦ Schedule next meeting